

DERWENT-ACC-NO: 2003-236631

DERWENT-WEEK: 200323

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TITLE: Flat color cathode ray tube with light weight

INVENTOR: DO, G H; JUNG, S H

PATENT-ASSIGNEE: LG ELECTRONICS INC[GLDS]

PRIORITY-DATA: 2001KR-0016974 (March 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
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APPL-DATE			
KR2002076830A	N/A	2001KR-0016974	March 30, 2001

INT-CL (IPC): H01J029/02

ABSTRACTED-PUB-NO: KR2002076830A

BASIC-ABSTRACT:

NOVELTY - A flat color CRT is provided to minimize changes of components including a deflection yoke, shadow mask and an electron gun by reducing length

of skirt portion of panel.

DETAILED DESCRIPTION - A flat color CRT comprises a panel having a flat outer surface, an inner surface with a predetermined curvature and a skirt extended in a vertical direction from the inner and outer surfaces; a yoke portion for mounting a deflection yoke; and a funnel coupled with the skirt of the panel.

When the effective area of picture has two lines crossing at right angles, and

the two lines have lengths of M and N, satisfying the expression  $M(\text{plus})N/\text{square}(M^2(\text{plus})N^2)$  at least 1.38. The diagonal effective area of

picture has a size larger than 50.8cm. When the shortest distance from the

extended plane passing an end of the panel side of the yoke portion vertical to

the tube axis to the extended plane passing the panel and funnel assembly

vertical to the tube axis is LF-TOR, and the shortest distance from the center

of outer surface of the panel to the extended plane passing the panel and

funnel assembly vertical to the tube axis is LP-OAH, the expression 0.44 less

than LP-OAH/LF-TOR at most 0.65 is satisfied.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: FLAT COLOUR CATHODE RAY TUBE LIGHT WEIGHT

DERWENT-CLASS: V05

EPI-CODES: V05-D01B5;

